

REMARKS

Claim Amendments

Claims 1, 5, and 19 have been canceled.

Claims 2-3 and 6-8 have been amended to depend directly or indirectly from independent claim 9, and claims 20-21 have been amended to depend from independent claim 22. No new matter has been added by these amendments.

Claims 30-35 have been added to depend from independent claim 22. Dependent claims 30-35 relate to the subject matter of claims 2, 4, 10, 11, 6, and 7, respectively, except that these claims depend directly or indirectly from independent claim 22. No new matter has been added by these claims.

Claims 4, 9-18, and 22-29 are original claims.

Response to Restriction Requirement

Claims 1-29 are subject to a restriction requirement. In particular, the Examiner has asked Applicant to elect for examination either the invention of claims 1-8 and 19-21, drawn to a method of synthesizing pulses, or the invention of claims 9-18 and 22-29, drawn to a method of synthesizing pulses using Marchenko equations. **Applicant hereby elects the invention of claims 9-18 and 22-29 with traverse in that claims 9-18 and 22-29 relate to a particular implementation (embodiment) of the method of independent claims 1 and 19.** However, this traversal is mooted by the claim amendments.

Independent claims 1 and 19 have been canceled, dependent claims 2-4 and 6-8 have been amended to depend from independent claim 9, dependent claims 20 and 21 have been amended to depend from independent claim 22, and the subject matter of dependent claims 2, 4, 10, 11, 6, and 7 have been incorporated into dependent claims 30-35 to depend from independent claim 22. All of pending claims 2-4, 6-18, and 20-35 correspond to the elected invention of claims 9-18 and 22-29.

Applicant requests early and favorable consideration of all pending claims.

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